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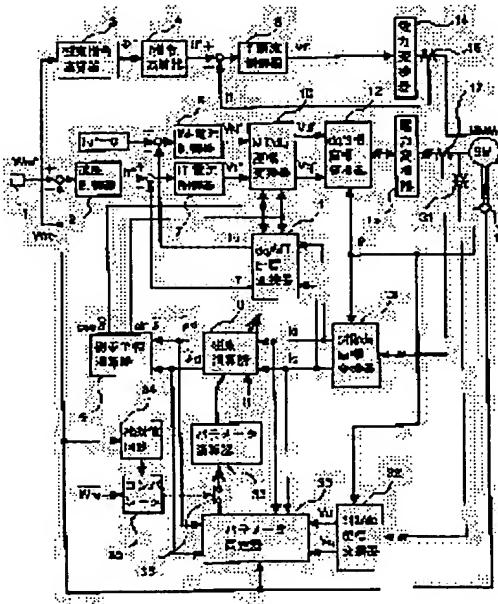
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## (54) CONTROLLER OF SYNCHRONOUS MOTOR

## (57)Abstract:

**PROBLEM TO BE SOLVED:** To improve flux operating accuracy and conduct the highly accurate vector control of a synchronous motor.

**SOLUTION:** This controller is provided with a flux operator 8 and a parameter computing unit 33 which changes its operating coefficient according to current related to d-axis flux and current related to q-axis flux, and a parameter identifier 30 which inputs the estimated value of each axis component of an armature interlinkage flux and both d-axis component and q-axis component of armature voltage, and identifier an operation coefficient of the flux operator 8. In a high-speed rotating area, correction is made on the relational value of the parameter computing unit 33 on the basis of identification result with the parameter identifier 30 and a current value in identifying and the operating coefficient of the flux operator 8 is corrected for flux operation on the basis of parameter identification results. In a low-speed rotating area, the operating coefficient of the flux operator 8 is corrected for flux operation on the basis of the outputted value from the parameter computing unit 33 corrected in the high-speed rotating area.



## LEGAL STATUS

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